



User manual

iQ 330 – Generation 22

Rugged Tablet PC M970D

2155-ENG / V-1.0-15/07/13



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IMPORTANT SAFETY INSTRUCTIONS

- Please read these instructions carefully before using the product and save for later reference.
- Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanent damage to the screen.
- Do not use this product near water.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. (For AC version only)
- Do not defeat the purpose of the grounding-type plug.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product by yourself, as opening or removing covers may expose you to dangerous voltage points or other risks and will void the warranty. Refer all servicing to qualified service personnel.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.
 - If rainy or water has been exposed to the product.

-
- If the product does not operate normally that the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - If the product has been dropped or the cabinet has been damaged.
 - If the product exhibited a distinct change in the performance, that indicates a need for service.

1.1 Caring for Your Tablet PC

 To avoid electrical shock or damage to the unit...

- Disconnect power from the computer by unplugging the power cord from the AC outlet (not by unplugging the power cord from the computer).
- Be sure not to clean the computer when it is plugged into a wall socket.
- When cleaning the unit, clean only with a damp soft cloth. Do not pour liquid onto the unit.
- Do not clean while the computer is “on” or plugged into a wall socket.
- Caution students to avoid using this device under wet conditions and also to protect the unit when carrying under this condition.
- Be sure the touch pad does not come into contact with dirt, liquids, or grease.
- Power connection must be removed before installing signal cables, whenever it is functionally and legally allowed.
- Power cords must be reconnected only after all signal interconnections have been completed.

1.2 Information on the Power Cord

To reduce the risk of electric shock or damage to the equipment:

Plug the power cord into an AC outlet that is easily accessible at all times.

Disconnect power from the computer by unplugging the power cord from the AC outlet (not by unplugging the power cord from the computer).

If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord

grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

Only the AC adapter provided with the computer should be used with the computer

1.3 Battery Pack Safety

Keep the battery away from children.

The battery pack is intended to use only with this Tablet PC.

To reduce potential safety issues, only the battery provided with the computer, a replacement battery provided by the supplier, or a compatible battery purchased as an accessory from the supplier should be used with the computer.

To reduce the risk of fire or burns, do not disassemble, crush, or puncture a battery; short the external contacts on a battery; or dispose of a battery in fire or water.

Do not expose a battery to temperatures above 60°C (140°F).

Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.

Do not charge the battery pack if the ambient temperature exceeds 45°C (113°F).

Do not expose the battery pack to low storage temperatures (below 0°C, 32°F).

To obtain a replacement battery, contact your local dealer.

When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.

Use only supplied AC Adapter for charging.

CAUTION!

Danger of explosion if battery is incorrectly replaced. Only qualified service technicians should replace and discard the battery pack. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions or local laws.

1.4 Identifikation

Manufactory: WinMate WinMate Communication INC.
9F, No.111-6, Shing-De Rd., San-Chung District, New
Taipei City 241, Taiwan, R.O.C.

Distributed: Würth Online World GmbH
Schliffenstr./Falkhof
74653 Künzelsau

Product: Rugged Tablet PC /iQ330

Model No.: M970D

1.5 Regulatory Information CE

European Notice

This product with the CE marking comply with the published by the
European Community Directive

EUROPEAN COUNCIL DIRECTIVE 2004/108/EC

Compliance with these directives implies conformity to the following
European Norms:

EN 55022:2010 (Class B)

EN 55024 : 2010

AS/NZS CISPR 22:2009 (Class B)

EN 61000-3-2 : 2006/A1:2009/A2:2009

EN 61000-3-3 : 2008

IEC 61000-4-2 : 2008

IEC 61000-4-3 : 2010

IEC 61000-4-4 : 2010

IEC 61000-4-5 : 2005

IEC 61000-4-6 : 2008

IEC 61000-4-8 : 2009

IEC 61000-4-11 : 2004

FCC

And, in accordance to the following Applicable Procedures Applicable to
ANSI C63.4 – 2009

(The Information Technology Equipment)

That this product has been assessed against the following Applicable Standards CISPR PUB. 22, FCC Part 15 Subpart B and Canada ICES-003 Issue 4

CERPASS hereby acknowledges that:

The measurements shown in this test report may issue a DECLARATION of CONFORMITY and apply the FCC mark in accordance to U. S. A. Rules.

2 Getting Started

This chapter guides you to get the Rugged Tablet PC ready for operating.

2.1 Connecting the AC Power

Our tablet PC can operate either on the external AC power adapter or internal battery power. It is suggested that you use AC power when you start up the tablet PC first time.

⚠ CAUTION

Use only the AC adapter included with your tablet PC. Using other AC adapters may damage the tablet PC.

1. Plug the DC cord of the AC adapter to the power connector (1) of the tablet PC.

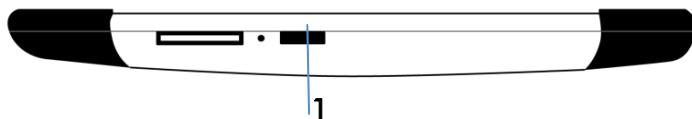


2. Plug the female end of the AC power cord to the AC adapter and the male end to the power electrical outlet.
3. When the AC adapter is connected, the Battery Pack is also under charging. You can check the Battery Status LED indicator to see the currently progress. The indicator turns to green when is fully charged.

2.2 Turning On and Off the Tablet PC

Turning on the Tablet PC

1. Place your tablet PC on a flat and stable surface or holding the tablet PC on your hand.
2. Make sure that the tablet PC is either connected to AC power or the battery pack with power.
3. Press the power button (1) on the right side by 3 seconds to start it.



Turning off the Tablet PC

#	Stop mode	How to do	Start or Resume again
1	Power Off	Following the shutdown process during operating system. The standard process can prevent unsave data loss or damage your software programs.	
2	Sleep (S3)	Under normal operating system, Push the Power Button 0.5 second to go to sleep mode. (push again to wake up the unit)	



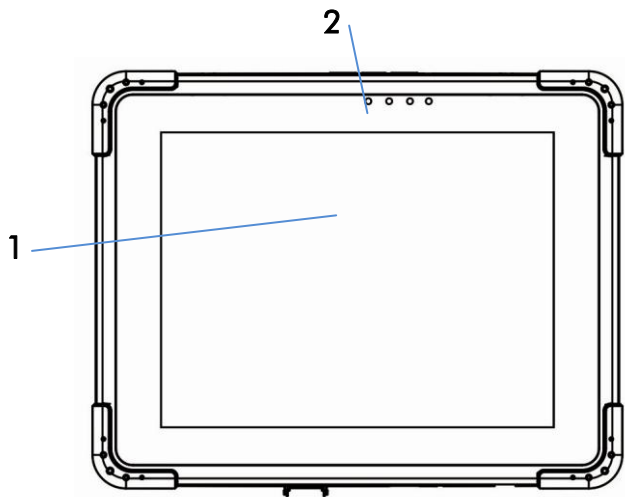
CAUTION

If you have to turn the tablet PC on again immediately after turning it off, wait for at least five seconds. Turning the tablet PC off and on rapidly can damage it.

2.3 Touring the Tablet PC

This section we will show the Tablet PC external connection parts and their functions.





Front view



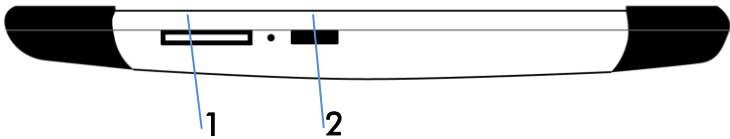
- | | | |
|-----------|------------------------------|---|
| 1. | LCD display | Contents of the current system operation are displayed here. |
| 2. | LED status indicators | From right to left shows the status about Power mode, Battery mode, Storage and WiFi status mode. |



LED Indicator Status Description

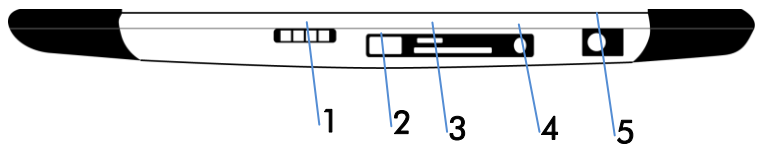
LED Term	Power mode	Battery Status	Storage Status	Wi-Fi Status
LED Indicator				
Indicator Status Description	<p><u>Blue light :</u> when Power On. No light when Power Off.</p>	<p><u>Orange Light :</u> Under charging <u>Red Light :</u> Low Battery</p>	<p><u>Green light :</u> when storage under operation. No light when storage stop operation.</p>	<p><u>Green light :</u> when Wi-Fi under operation. No light when Wi-Fi stop operation.</p>

Right view



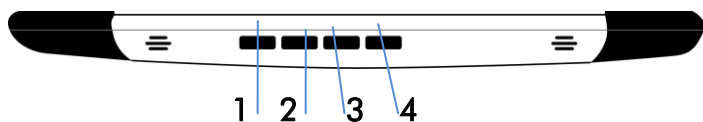
1	SIM card slot	To insert the SIM card
2	Power Button	Press 3 seconds continuous to turn-on the PC. Press to force shutdown the PC

Bottom view



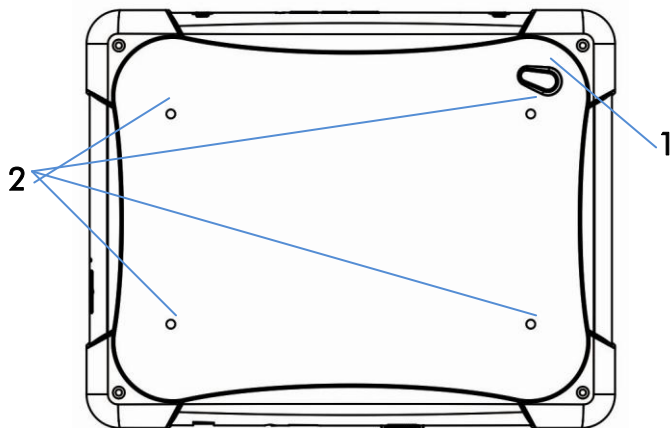
1	Docking Connector	Connect to the optional docking
2	USB 2.0 port	Standard USB2.0 port
3	LAN/HDMI	LAN & HDMI Out combo connector. Connect with the LAN & optional HDMI cable.
4	Mic-in/Line-Out	Mic-in for microphone. Line-Out for the external speaker or handset.
5	DC Power Jack	DC 12V in Power

Top view



1 Menü	Quick to Know Menu
2 Hotkey (F1)	Programmable Hot-key for user to define by application
3 Vol +	volume up
4 Vol. -	volume down

Back view



1. Camera	Camera for pictures and videos
2. Threaded hole	Attachment for the hand trap

3 Product Features and Specification

3.1 Product Features

Our Rugged Tablet PCs are designed with state of the art industrial use, versatile functionality and solid products. With great mobility support and battery management. The 9.7" rugged tablet provides an alternative solution for those between general consumer and extremely rugged application.



- 9.7" 1024x768 Resolution IPS LED Panel
- Low-power system with Intel® Atom N2600 processor
- 2GB SODIMM DDR3-800 memory
- Built-in Wi-Fi/ Bluetooth Module
- Support 3G&GPS function (optional)
- Standard Battery 5300 mAh
- Mobile Rugged- Shock, Vibration, and transit drop
- 4 points Projective-capacity touch

3.2 Product Specification

The product specification as the following table description:

System Specification

System	
Processor	Intel® Atom N2600 Dual core 1.6GHz
BIOS	AMI System BIOS
System Chipset	Intel® NM10 Chipset
System Memory	2GB SODIMM DDR3-800
LAN Controller	Realtek RTL811B GigaLAN Controller
Storage	mSATA SSD
Audio	Audio out for headset, Micro-in for microphone jack, 1.0W Speaker x2 (Internal)

I/O Connectors

Bottom I/O Port	Docking Connector x1, Standard USB2.0 port x1, LAN & HDMI Out combo connector x1, Mic-in/Line-Out x1, DC jack x1
Right I/O Port	SIM card slot x1,
Upper side button	Volume up x1, Volume down x1, Hotkey(F1) x1 , Menu key x1

In Front Control

LED indicator	From right to left shows the status about Power mode, Battery mode, Storage and WiFi status mode
---------------	--

Display Specification

Size	9.7 inch
Resolution	1024x768 pixels
Touch	Projective Capacitive (4 points)

System Specification (continues)

Mechanical and Environment

Weight	988g (w/o accessories)
Operating Temperature	0 deg.C to 50 deg.C
Operating Humidity	30% to 90% (non condensing)
IP Proof	IP54
Mounting	Optional docking / Optional VESA Kit
Shock	Rugged mobile-shock
Vibration	Rugged mobile-vibration
Drop*	4 feet
Certifications	CE, FCC, CCC

Power Management

Power Input	12V DC
Battery	Standard battery 5300mAh
Operating time	5 Hours
Adapter	100-240V AC in , 50-60Hz, 12VDC output

Wireless Communication

WLAN	built-in 802.11b/g/n
Bluetooth	built-in Bluetooth
3G	Optional built-in 3G Module
GPS	Optional built-in GPS Module



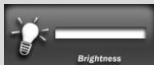






4 Operating Tablet PC and HotTab Hotkey Utility

4.1 Quick to Know Menu and HotTab Hotkey Function

This section will introduce you about our easy-of-use function buttons. Our Tablet PC function buttons support very easy way and useful function to adjust Brightness, Volume and watch Battery current status. For programmable Hotkey function can also be defined by user to control by their common use application.

4.1.1 How to use Menu Function

Menu Function Adjustment

#	Action	Function Description	Funtion Adjustment	
1	Push "Menu" button 1st Time	 Show Current Brightness	 Click "Vol+" button to increase brightness (Or Drag by Touch)	 Click "Vol-" to decrease brightness(Or Drag by Touch)
2	Push "Menu" button 2nd Time	 Show current Volume	 Click "Vol+" button to increase volume(Or Drag by Touch)	 Click "Vol-" to decrease volume(Or Drag by Touch)
3	Push "Menu" button 3rd Time	 Show current Battery status		
4	Push "Menu" button 4th Time		Show current on/off of Wireless\ Bluetooth \ Camera and 3G\GPS mode. WiFi on/off Bluetooth on/off Camera on/off 3G on/off (Optional) GPS on/off (Optional)	
5	Push "Menu" button 5th Time	 Show the system	You can see the following: HotTab version Project ID	

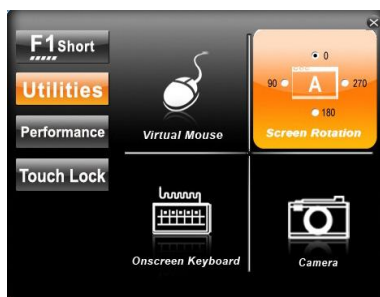
4.1.2 How to use F1 (Hotkey) Function

F1 (Hotkey) Function

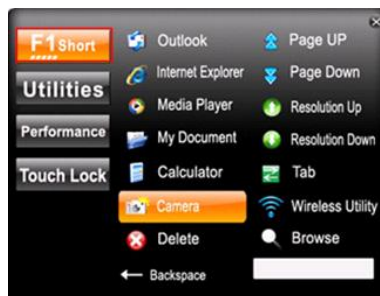
Use the HotTab software utility to make it easy to program and define hot key by customer's usual application.

Long press (3~4 seconds) the "F1" button on the top of your M970D and you can see the utilities menu at center of desktop.

Then touch the "F1 Short" button.

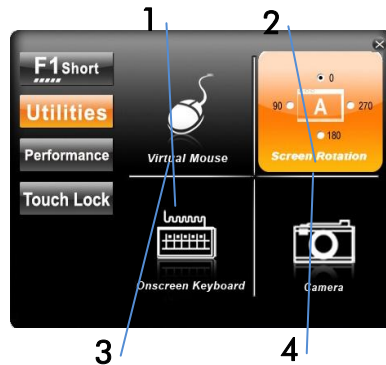


Choose one software application as your hotkey function. After that, the software application which you set will open immediately when you short press "F1" button.



The Hotkey software program is the programmable application software for the Hotkey; we choose some usual applied function for default setup. For example, user can choose his own application program very easy by setting up the function from the setup window.

Utilities Function



1. The first is virtual mouse
2. Screen rotation
3. Onscreen Keyboard



4. Camera Function

5. F1 Short function key
You can set F1 button as a hotkey to open the programs listed on menu or use "Browse" (5.a) and choose the execution program file.



6. Power Manage function

6



7. Touch Lock

Touch "Touch Lock" button to lock the touch screen and all buttons on the tablet.

7



Drag right to unlock the touch screen and all buttons on the tablet.



8. Low battery warning:
When the battery under 10%, system will show the battery low to remind you to change the new battery or insert adapter to charge.



4.2 Wireless Network and Bluetooth

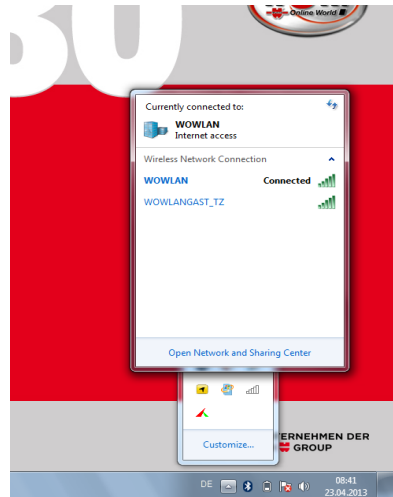
4.2.1 Connecting to a Wireless Network

To connect to a wireless network:

1. Push "Menu" button 4 times and making sure the Wireless function is "On".



2. Please using the default Windows Wireless Network Connection utility.




4.2.2 Using the Bluetooth Wireless Feature

We apply Bluetooth 2.1 + EDR module for default function of the Tablet PC series. Depending on your application, the Bluetooth module can give you capability for short-range wireless communications between devices without requiring a cable connection. The transmission can go through walls, pockets and briefcases as long as two devices are within range around 10 meters. Following the easy step to connect to the Bluetooth communication.

1. Push "Menu" button 4 times and making sure the Bluetooth function is "On".

To establish a Bluetooth pairing:

Both devices must be discoverable.

2. First Click on the icon on the desktop  or the taskbar.
3. Click on Add Device
4. Follow the wizard's instructions



Note

Bluetooth devices manufactured by WOW!, E.g. WOW! Snooper are configured at the WOW! software.

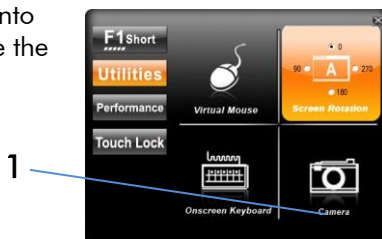
4.3 Using the Camera Feature

We apply a internal 2M Pixels Web Camera module for default function of the Tablet PC series.

1. Push "Menu" button 4 times and making sure the Camera function is "On".



2. Press "F1" button about 5 seconds to into the HotTab utilities menu. Then choose the camera function (1).



3. Click the icon (2) to record a video.
Click the icon (3) to take a picture.
Click the icon (4) to change the flashlight mode.
Click the icon (5) to open the setting menu.
Click the icon (6) to close the camera.



* Default picture & video save path:
C:\Webcam




5 Tablet PC power mangagement

5.1 About AC Adapter

Our Tablet PC support one set of AC adapter and power cord by country area. Please contact with your dealer for appropriate power cord if necessary.



CAUTION

-  When you disconnect the AC adapter, disconnect from the electrical outlet first and then from the tablet PC. A reverse procedure may damage the AC adapter or tablet PC.
-  Always hold the plug head when you unplug the connector, never pull out the cord.
-  The AC adapter is designed for use with your tablet PC only. Connecting the AC adapter to another device can damage the adapter.

The adapter operates on any voltage in the range of 100~240 V AC. The AC adapter serves as a converter from AC (Alternating Current) to DC (Direct Current) power because the tablet PC runs on DC power input, but an electrical outlet usually provides AC power.

5.2 Charging and Checking Charging Status

5.2.1 Charging the Battery Pack

The battery pack is the internal power source for the tablet PC. It is rechargeable using the AC adapter. The operating time of a fully charged battery pack depends on how you are using the tablet PC. When your applications often access peripherals, you will experience a shorter operating time.



NOTE

Charging will not start if the battery's temperature is below 0°C (32°F).

It is also recommended not to charge the battery when temperature is above 45°C (113°F)



To prevent damage, the charging process may stop and the Battery Charge Indicator flashes red when the environmental temperature gets above 55°C (131°F)

5.2.2 Charging Approaches

There is one way recommended to charge the battery pack. By connecting the AC adapter to the tablet PC and an electrical outlet, the Battery Charge Indicator on the tablet PC glowed orange to indicate that charging is in progress. You are advised to keep the tablet PC power off while the battery is being charged. When the battery is fully charged, the Battery Charge Indicator glows green.



CAUTION:



After the tablet PC has been fully recharged, do not immediately disconnect and reconnect the AC adapter to charge it again. The above-mentioned may damage the battery.




During charging, do not disconnect the AC adapter before the battery has been fully charged; otherwise you will get a prematurely charged battery.

5.2.3 Checking the Battery Level

Any battery level indication is an estimated result. The actual operating time can be different from the estimated time, depending on how you are using the tablet PC.

In Windows operating system, you can check the approximate battery level using the battery meter function. To read the battery level in Windows, click the icon on the taskbar. (Click the icon if the tablet PC is using AC power.)

5.2.4 Battery Low Signals and Actions

Battery Low occurs when the battery has approximately 10 % (Windows default setting) of its charge remaining. The tablet PC's Battery Charge Indicator () blinks red to alert you take actions.





NOTICE:

You can set up the Battery Low threshold and signals under Windows. Immediately save your data upon Battery Low. The remaining operating time depends on how you are using the tablet PC. If you are using the audio subsystem, hard or USB flash disk, the battery might run out of charge very quickly.



CAUTION:

-  If you do not take any action, the tablet PC will automatically hibernate and turn off.
-  If you fail to save your data when the battery completely runs out of charge, then you will lose your data.

6 Troubleshooting

Troubleshooting activity should only be by authorized personnel.

Your Tablet PC has been fully tested and complies with the system specifications by WOW! before shipping. However, incorrect operations and/or mishandling may cause problems. You may also encounter simple setup or operating problems that can be solved by considering the following suggestions. If the problem persists, contact your dealer for service.

- Make sure the AC adapter is properly plugged into the Tablet PC and a wall outlet.
- Check to see if the power indicator of the Tablet PC is on.
- Make sure all devices connected to the external ports are plugged in properly. You can also remove these devices to eliminate them as the source of the problem.
- Some software programs may cause problems during your routine use. Consult the software vendor for problem solving.

6.1 System recovery



With system recovery you can restore the system settings obtained on delivery. This allows you to rectify different problems which have arisen, for example, as a result of incorrectly installed software from third-party providers or the like.

The WoW! software remains unaffected during system recovery. The WoW! update status and your registrations are retained.

WARNING

Use only if you are prompted by the Service Partner to.

WARNING

All personal data of the C: partition will be lost.



IMPORTANT! Perform a manual data backup before starting the system recovery.

All the data on the C: partition are deleted.



NOTE:

For system recovery you need a standard PC keyboard with USB connection. The system recovery started by the **F9** key!

1. Start the computer
2. Connect the USB keyboard to the Tablet PC
3. Click on *"backup now"* on the desktop, a backup is performed.

The system recovery is started from the hard disk.

4. Carry out a restart.

The following message appears on screen for a few seconds:

"To establish the status on delivery, follow the instructions in the manual"

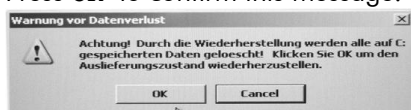
5. To start system recovery, press the **F9** key on the USB keyboard within this period of time.



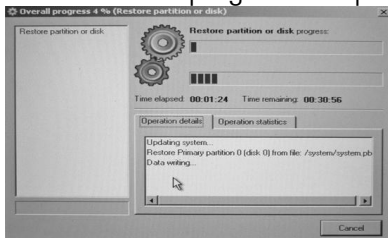
Important!

You will then be informed that all data of the C\:\ partition on your hard disk are being deleted.

6. Press **OK** to confirm this message.



7. The installation progress is displayed.



8. The computer starts automatically after system recovery has ended.
The system is now ready for use again.

7 Contact

Importer:

Data Respons GmbH
Amalienbadstr. 41, Bau 53
DE-76227 Karlsruhe
www.datarespons.de
Assembled in Taiwan

Distribution:

WOW! Würth Online World GmbH
Schliffenstraße Falkhof
DE-74653 Künzelsau
☎ +49 (0) 7940/15-1770
☎ +49 (0)7940/15-3299
info@wow-portal.com
http://www.wow-portal.com

Support



For more support please contact your local service partner.
www.wuerth.com

Please contact for further questions and for service to the Würth company of their country.

WOW! Würth Online World GmbH

Schliffenstraße Falkhof

74653 Künzelsau